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1 [A taxonomy of Data Grids for distributed data sharing, management, and processing](#)  
Srikumar Venugopal, Balikumar Guvva, Kotagiri Ramamohanarao  
June 2006 **Computing Surveys (CSUR)**, Volume 38 Issue 1  
**Publisher:** ACM [Request Permissions](#)  
Full text available: [PDF](#) (1.70 MB)  
**Bibliometrics:** Downloads (6 Weeks): 96, Downloads (12 Months): 863, Downloads (Overall): 6494, Citation Count: 12  
Data Grids have been adopted as the next generation platform by many scientific communities that need to share access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...  
**Keywords:** Grid computing, data-intensive applications, replica management, virtual organizations

2 [A Review of the Rationale and Architectures of Pjama, a Durable, Flexible, Evolvable and Scalable Orthogonally Persistent Programming Platform](#)  
Malcolm Atkinson, Mick Jordan  
June 2000 A Review of the Rationale and Architectures of Pjama: a Durable, Flexible, Evolvable and Scalable Orthogonally Persistent Programming Platform  
**Publisher:** Sun Microsystems, Inc.  
Full text available: [PDF](#) (455.97 KB)  
**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 0, Downloads (Overall): 173, Citation Count: 7  
A primary goal of research into orthogonal persistence is to simplify significantly the construction, maintenance and operation of applications in order to save software costs, extend the range of applications and improve users' experiences. To test ...

3 [A review of smart homes-Present state and future challenges](#)  
Marie Chan, Daniel Esteve, Christophe Escriba, Eric Camps  
July 2008 **Computer Methods and Programs in Biomedicine**, Volume 91 Issue 1  
**Publisher:** Elsevier North-Holland, Inc.  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 6  
In the era of information technology, the elderly and disabled can be monitored with numerous intelligent devices. Sensors can be implanted into their home for continuous mobility assistance and non-obtrusive disease prevention. Modern sensor-embedded ...  
**Keywords:** Elderly people, Smart home

4 [Scientific Papers](#)  
Staff  
December 2003 **Technology and Health Care**, Volume 11 Issue 5  
**Publisher:** IOS Press  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

5 [Proceedings of the 1999 ACM/IEEE conference on Supercomputing \(CDROM\)](#)  
January 1999 **Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**  
**Publisher:** ACM  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

6 [Information fusion for wireless sensor networks: Methods, models, and classifications](#)  
Eduardo E. Nakamura, Antonio A. F. Loureiro, Alexandre Q. Freitas  
September 2007 **Computing Surveys (CSUR)**, Volume 39 Issue 3  
**Publisher:** ACM [Request Permissions](#)  
Full text available: [PDF](#) (1.20 MB)

**Bibliometrics:** Downloads (6 Weeks): 285, Downloads (12 Months): 2543, Downloads (Overall): 9528, Citation Count: 0

Wireless sensor networks produce a large amount of data that needs to be processed, delivered, and assessed according to the application objectives. The way these data are manipulated by the sensor nodes is a fundamental issue. Information fusion arises ...

**Keywords:** Information fusion, architectures and models, data aggregation, data fusion, wireless sensor networks

**7 Communications of the ACM: Volume 51 Issue 12**

 December 2008

Communications of the ACM

**Publisher:** ACM

Full text available:   (6.91 MB)

**Bibliometrics:** Downloads (6 Weeks): 265, Downloads (12 Months): 300, Downloads (Overall): 4032, Citation Count: 0

**8 Data fusion and topology control in wireless sensor networks**

Yrinda Gupta, Balaji Pandey

April 2008

**WSEAS Transactions on Signal Processing**, Volume 4 Issue 4

**Publisher:** World Scientific and Engineering Academy and Society (WSEAS)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2

The design of large-scale sensor networks interconnecting various sensor nodes has spurred a great deal of interest due to its wide variety of applications. Data fusion is a critical step in designing a wireless sensor network as it handles data acquired ...

**Keywords:** data aggregation, data fusion, protocols, topology control, wireless sensor networks

**9 Participation through communicative action: A case study of GIS for addressing land/water development in India**

S. K. Puri, Sundeep Sahay

July 2003

**Information Technology for Development**, Volume 10 Issue 3

**Publisher:** IOS Press

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2

Attempts to alleviate land degradation and water scarcity in arid/semi-arid regions of India have historically been carried out within the ambit of government schemes implemented disparately by concerned departments. These sectoral methods are being ...

**Keywords:** Communicative Action, Gis In Rural Development, Habermas, Ideal Speech Situation, India, Indigenous Knowledge, Knowledge, Land Degradation, User Participation

**10 Integration of GIS, GPS, and optimization technologies for the effective control of parcel delivery service**

Hoon Jung, Keumwoo Lee, Wookwan Chun

September 2006

**Computers and Industrial Engineering**, Volume 51 Issue 1

**Publisher:** Pergamon Press, Inc.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

An intelligent monitoring and control system for parcel delivery service is described in this paper. To manage pick and delivery operations more effectively, geographical information system (GIS), global positioning system (GPS) and wireless communication ...

**Keywords:** Delivery service, GIS, Monitoring, Scheduling

**11 A survey of urban vehicular sensing platforms**

Uichin Lee, Mario Gerla

March 2010 **Computer Networks: The International Journal of Computer and Telecommunications Networking**, Volume 54 Issue 4

**Publisher:** Elsevier North-Holland, Inc.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Vehicular sensing where vehicles on the road continuously gather, process, and share location-relevant sensor data (e.g., road condition, traffic flow) is emerging as a new network paradigm for sensor information sharing in urban environments. Recently, ...

**Keywords:** Comparative evaluation, Survey, Vehicular sensor networks

**12 Efficient profile aggregation and policy evaluation in a middleware for adaptive mobile applications**

Claudio Bettini, Linda Fareschi, Daniele Riboni

October 2008

**Pervasive and Mobile Computing**, Volume 4 Issue 5**Publisher:** Elsevier Science Publishers B.V.**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2

There is a large consensus on the need for a middleware to efficiently support adaptation in pervasive and mobile computing. Advanced forms of adaptation require the aggregation of context data and the evaluation of policy rules that are typically provided ...

**Keywords:** Adaptation, Context-awareness, Mobile middleware, Rule-based reasoning

**13** Using hierarchical location names for scalable routing and rendezvous in wireless sensor networks

**Fang Bian, Xin Li, Ramesh Govindan, Scott Shenker**

July 2006

**International Journal of Ad Hoc and Ubiquitous Computing**, Volume 1 Issue 4**Publisher:** Inderscience Publishers**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Until practical ad-hoc localisation systems are developed, early deployments of wireless sensor networks will manually configure location information in network nodes in order to assign spatial context to sensor readings. In this paper, we argue ...

**Keywords:** HLI, HLR, area routing, broadcast, data-centric routing primitives, hierarchical location identifiers, hierarchical location routing, scalable rendezvous, scalable routing, scoped anycast, sensor networks, simulation unicast, wireless networks

**14** A self-organised middleware architecture for Wireless Sensor Network management

**Mengjie Yu, Hala Mokhtar, Madjid Merabti**

May 2008

**International Journal of Ad Hoc and Ubiquitous Computing**, Volume 3 Issue 3**Publisher:** Inderscience Publishers**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

In this paper, we propose a lightweight middleware system that supports Wireless Sensor Networks (WSNs) to handle real-time network management using a hierarchical framework. The primary objective of this middleware is to provide standard ...

**Keywords:** WSNs, energy efficiency, network management, node energy consumption, power management, self-managed sensor networks, self-organised middleware, sensor nodes, wireless networks

**15** INFORM: integrated flow orchestration and meta-scheduling for managed grid systems

**Gargi B. Dasgupta, Balaji Viswanathan****MC '07: Proceedings of the 2007 ACM/IFIP/USENIX international conference on Middleware****Publisher:** ACMFull text available:  [PDF](#) (1.12 MB)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 35, Downloads (Overall): 103, Citation Count: 1

The execution of workflow applications is a reality today in enterprise and scientific grid domains. The core middleware technologies for grids (e.g. meta-schedulers) contain sophisticated resource matching logic, but lack control flow orchestration ...

**Keywords:** JSDL, WS-BPEL, data scheduling, grid, meta-scheduler, workflow orchestrator/choreography

**16** SIP-based IEEE802.11 media independent handover: a BT-Intel collaboration

**K.N. Cheong, V.S. Kesavan, S.L. Ng, E. Carvalho, A.L. Low, G. Macipuccio**

April 2007

**BT Technology Journal**, Volume 25 Issue 2**Publisher:** Kluwer Academic Publishers**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 5

In this paper, we look at various mobility management protocols and handover frameworks in use in BT. We also report on the results from a collaborative proof of concept mixed network prototype for a seamless handover system using Intel's early implementation ...

**17** Wireless sensor network survey

**Jennifer Yick, Biswanath Mukherjee, Dipak Ghosal****Computer Networks: The International Journal of Computer and Telecommunications Networking**, Volume 52 Issue 12**Publisher:** Elsevier North-Holland, Inc.**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 3

A wireless sensor network (WSN) has important applications such as remote environmental monitoring and target tracking. This has been enabled by the availability, particularly in recent years, of sensors that are smaller, cheaper and intelligent. These ...

**Keywords:** Protocols, Sensor network deployment, Sensor network services, Survey, Wireless sensor network

**18** [Oral Presentations](#)

Staff

June 2001

**Technology and Health Care**, Volume 9 Issue 4

**Publisher:** IOS Press

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

**19** [Lineage retrieval for scientific data processing: a survey](#)

Rajendra Bose, James Frew

March 2005

**Computing Surveys (CSUR)**, Volume 37 Issue 1

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [PDF](#) (728.75 KB)

**Bibliometrics:** Downloads (6 Weeks): 39, Downloads (12 Months): 319, Downloads (Overall): 1888, Citation Count: 1

Scientific research relies as much on the dissemination and exchange of data sets as on the publication of conclusions. Accurately tracking the lineage (origin and subsequent processing history) of scientific data sets is imperative for the complete ...

**Keywords:** Data lineage, audit, data provenance, scientific data, scientific workflow

**20** [Toward improved geographic information services within a digital government: report of the NSF digital government initiative geographic information systems workshop](#)

Louis Hecht, Barbara Kuzera

May 2000 **dg.o '00:** Proceedings of the 2000 annual national conference on Digital government research

**Publisher:** Digital Government Research Center

Full text available:  [PDF](#) (531.35 KB)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 47, Downloads (Overall): 468, Citation Count: 0

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